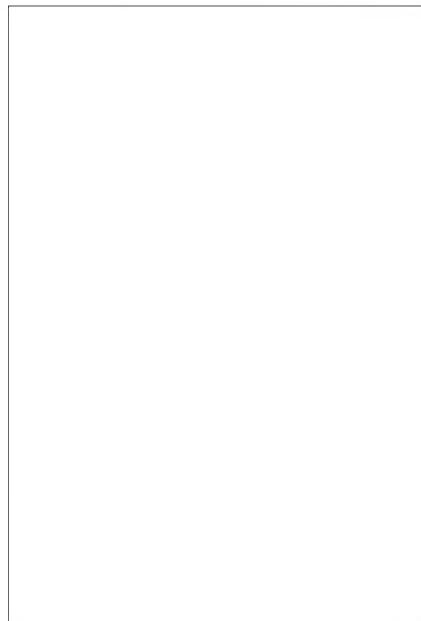


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**NPIC DATA SYSTEM
DATA AND CONTROL SEGMENT
ACQUISITION PHASE**

**APPENDIX C2
WBS INDEX
REVISION**



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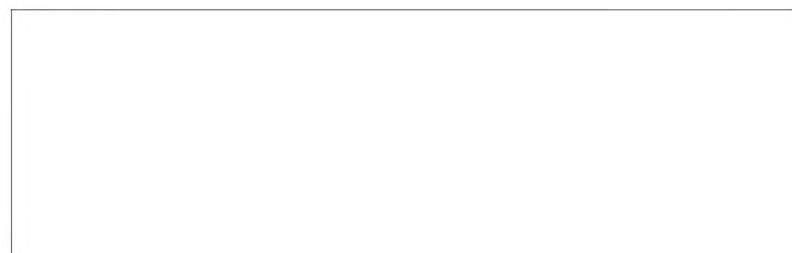
**NPIC DATA SYSTEM
DATA AND CONTROL SEGMENT
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**APPENDIX C2
WBS INDEX
REVISION**



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APPENDIX C2
WBS INDEX

As now edited, this revised WBS Index reflects the correct level 5 WBS elements for our BAFO baseline bid package. Adjustments are of four types:

- (1) Some level 5 WBS elements which were erroneously omitted, have been added.
- (2) Some level 5 (and level 6) WBS elements have been marked reserved where it was determined that they were not required for the basic bid; no Appendix C1 data sheets exist for these.
- (3) In a few instances, costs intended to go into one level 5 element were erroneously budgeted in another WBS element. These instances are appropriately identified.
- (4) In a few instances, a level 5 WBS element contains only purchase, computer, or travel cost and no labor costs. These instances are now annotated in the Index; no Appendix C1 data sheets exist for these.

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
1	X						D/C Segment	140000								
		X					Project Management	241000	X			0001				
		X					Project Management	341100	X			0001				
		X					Project Management	441100	X			0001				
			X				Provide Project Management (2d & 3d Level)	541100	X			0001				
			X				Provide Project Management (2d & 3d Level) Including NDPO Interface - BOC	641100	X			0001				
			X				Provide Project Management (2d & 3d Level) Including NDPO Interface - IOC	641101	X			0001				
			X				Provide Project Management (2d & 3d Level) Including NDPO Interface - FOC	641102	X			0001				

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	1	2	3	4	5	6							
	X						Project Control	341200	X			0001	
		X					Project Control	441200	X			0001	
		X					Project Control	541200	X			0001	
		X					Monitor, Control and Report Schedule Status - BOC	641200	X			0001	
		X					Monitor, Control and Report Schedule Status - IOC	641201	X			0001	
		X					Monitor, Control and Report Schedule Status - FOC	641202	X			0001	
		X					Monitor, Control and Report Cost Status - BOC	641203	X			0001	
		X					Monitor, Control and Report Cost Status - IOC	641204	X			0001	
		X					Monitor, Control and Report Cost Status - FOC	641205	X			0001	

Approved For Release 2007/09/07 : CIA-RDP84T00037R000300050001-3

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES	DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6								
	X						Quality Assurance	341300	X			0001		
		X					Quality Assurance	441300	X			0001		
			X				Provide & Implement Quality Assur. Plan	541300	X			0001		
				X			Provide Quality Assurance Plan - BOC	641300	X			0001		
					X		Implement Software Quality Assurance - BOC	641301	X			0001		
						X	Implement Software Quality Assurance - IOC	641302	X			0001		
						X	Implement Software Quality Assurance - FOC	641303	X			0001		
						X	Implement Hardware Quality Assurance - BOC	641304	X			0001		
						X	Implement Hardware Quality Assurance - IOC	641305	X			0001		
						X	Implement Hardware Quality Assurance - FOC	641306	X			0001		
						X	Monitor Subcontractor Quality Assurance - BOC	641307	X			0001		

Approved For Release 2007/09/07 : CIA-RDP84T00037R000300050001-3

Approved For Release 2007/09/07 : CIA-RDP84T00037R000300050001-3

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X	Monitor Subcontractor Quality Assurance - IOC				641308	X			0001		
		X	Monitor Subcontractor Quality Assurance - FOC				641309	X			0001		
		X	Provide QA Audit Reports - BOC				641310	X			0001		

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	1	2	3	4	5	6							
	X						Configuration Management	341400	X			0001	
		X					Configuration Management	441400	X			0001	
		X					Provide Config. Mgmt. of HW, SW, Procedures and Documentation Per NDPO & Contractor CM Plans	541400	X			0001	
			X				Prepare and Maintain CM Plan and Procedures and Documentation - BOC	641400	X			0001	
			X				Prepare Eng'g Change Notices/Requests and Other CM Related Documents - BOC	641401	X			0001	
			X				Prepare Eng'g Change Notices/Requests and Other CM Related Documents - IOC	641402	X			0001	
			X				Prepare Eng'g Change Notices/Requests and Other CM Related Documents - FOC	641403	X			0001	
			X				Perform CM Audits - BOC	641404	X			0001	
			X				Perform CM Audits - IOC	641405	X			0001	

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	1	2	3	4	5	6							
9			X	Provide Master Product & Document Control	541401	X					0001		
			X	Provide Master Product & Document Control - BOC	641407	X					0001		
			X	Provide Master Product & Document Control - IOC	641408	X					0001		
			X	Prepare and Maintain Software Version Description Document - BOC	641410	X					0001		
			X	Prepare and Maintain Software Version Description Document - IOC	641411	X					0001		
			X	Prepare and Maintain Software Version Description Document - FOC	641412	X					0001		
			X	Administer the Contractor WBS	541402	X					0001		
			X	Administer the Contractor WBS - BOC	641413	X					0001		
			X	Administer the Contractor WBS - IOC	641414	X					0001		
			X	Administer the Contractor WBS - FOC	641415	X					0001		

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	1	2	3	4	5	6							
	X						341500	X			0001		
		X					441500	X			0001		
		X					541500	X			0001		
			X				641500	X			0001		
				X			641501	X			0001		
				X			641502	X			0001		
					X		641503	X			0001		

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	1	2	3	4	5	6						
8		X					Status Reviews	341600	X		0001	
			X				Status Reviews	441600	X		0001	
				X			Status Reviews	541600	X		0001	
					X		Provide Monthly Status Reviews - BOC	641600	X		0001	
					X		Provide Monthly Status Reviews - IOC	641601	X		0001	
					X		Provide Monthly Status Reviews - FOC	641602	X		0001	
						X	Subcontractor Management	341700	X		0001	
						X	Subcontractor Management	441700	X		0001	
						X	Provide Management, Control and Visibility to Cost & Schedule of Subcontractors	541700	X		0001	
						X	Provide Management, Control and Visibility to Cost & Schedule of - BOC	641700	X		0001	
						X	Provide Management, Control and Visibility to Cost & Schedule of - IOC	641701	X		0001	

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	1	2	3	4	5	6								
6														
	X	Provide Management, Control and Visibility to Cost & Schedule of - FOC					641702	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - BOC					641703	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - IOC					641704	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - FOC					641705	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - BOC					641706	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - IOC					641707	X			0001			
	X	Provide Management, Control and Visibility to Cost & Schedule of - FOC					641708	X			0001			

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	1	2	3	4	5	6							
01		X					Document Publication and Control	341800	X			0001	
		X					Document Publication and Control	441800	X			0001	
		X					Document Publication and Control	541800	X			0001	
		X					Provide Publication, Maintenance and Control of all Project Documentation - BOC	641800	X			0001	
		X					Provide Publication, Maintenance and Control of all Project Documentation - IOC	641801	X			0001	
		X					Provide Publication, Maintenance and Control of all Project Documentation - FOC	641802	X			0001	
		X					Prepare and Administer Document Management Plan - BOC	641803	X			0001	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
II	X						System Engineering	242000	X			0002	
		X					System Engineering Management	342100	X			0002	
		X					System Engineering Management	442100	X			0002	
			X				Provide Tech. Mgmt of Project	542100	X			0002	
			X				Provide Tech. Mgmt of Project - BOC	642100	X			0002	
			X				Provide Tech. Mgmt of Project - IOC	642101	X			0002	
			X				Provide Tech. Mgmt of Project - FOC	642102	X			0002	
			X				Provide/Enforce S/W-Opns-HW Interface Stds	542101	X			0002	
			X				Provide/Enforce S/W-Opns-HW Interface Stds - BOC	642103	X			0002	
			X				Provide/Enforce S/W-Opns-HW Interface Stds - IOC	642104	X			0002	
			X				Provide/Enforce S/W-Opns-HW Interface Stds - FOC	642105	X			0002	
				X			Prepare Segment Development Plan	542102	X			0002	
				X			Prepare Segment Development Plan - BOC	642106	X			0002	

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	1	2	3	4	5	6									
12	X						Analysis	342200	X		0002				
		X					Analysis	442200	X		0002				
			X				Provide Requirements Analysis & Traceability	542200	X		0002				
				X			Provide Requirements Analysis & Traceability - BOC	642200	X		0002				
					X		Provide Requirements Analysis & Traceability - IOC	642201	X		0002				
						X	Provide Requirements Analysis & Traceability - FOC	642202	X		0002				
							Provide Performance Analysis	542201	X		0002				
							Provide Performance Analysis (Perform Tech Performance Measurements) - BOC	642203	X		0002				
							Provide Performance Analysis (Perform Tech Performance Measurements) - IOC	642204	X		0002				
							Provide Performance Analysis (Perform Tech Performance Measurements) - FOC	642205	X		0002				

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	1	2	3	4	5	6							
13		X		Provide RMA Analysis			542202	X			0002		
			X	Provide RMA Analysis - BOC			642206	X			0002		
			X	Provide RMA Analysis - IOC			642207	X			0002		
			X	Provide RMA Analysis - FOC			642208	X			0002		
			X	Prepare Segment Design Analysis Report			542203	X			0002		
			X	Prepare Segment Design Analysis Report - BOC			642209	X			0002		
			X	Prepare Segment Design Analysis Report - IOC			642210	X			0002		
			X	Prepare Segment Design Analysis Report - FOC			642211	X			0002		
			X	Accomplish Trade Studies			542204	X			0002		
			X	Accomplish Trade Studies - BOC			642212	X			0002		
			X	Accomplish Trade Studies - IOC			642213	X			0002		

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	1	2	3	4	5	6							
14				X	Accomplish Trade Studies - FOC		642214	X			0002		
				X	Provide Eng. Specialties		542205	X			0002	Reserved	
				X	Provide Eng. Specialties - BOC		642215	X			0002	Reserved	
				X	Provide Support to Intersegment Interface Definition & Requirements Determination		542206	X			0002		
				X	Provide Support to Intersegment Interface Definition & Requirements Determination - BOC		642218	X			0002		
				X	Provide Support to Intersegment Interface Definition & Requirements Determination - IOC		642219	X			0002		
				X	Provide Support to Intersegment Interface Definition & Requirements Determination - FOC		642220	X			0002		
				X	Prepare Eng. Technical Notes		542207	X			0002		
				X	Prepare Eng. Technical Notes - BOC		642221	X			0002		

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	1	2	3	4	5	6							
15			X				Prepare Eng. Technical Notes - IOC	642222	X			0002	
			X				Prepare Eng. Technical Notes - FOC	642223	X			0002	
		X					Operations Engineering & Development	342300	X			0002	
		X					Operations Engineering & Development	442300	X			0002	
		X					Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - BOC	542300	X			0002	
		X					Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - IOC	642300	X			0002	
		X					Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - FOC	642301	X			0002	
		X					Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng.	642302	X			0002	
		X					Develop User Manuals	542301	X			0002	
		X					Develop User Manuals - BOC	642303	X			0002	
		X					Develop User Manuals - IOC	642304	X			0002	

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	1	2	3	4	5	6							
16				X	Develop User Manuals - FOC		642305	X			0002		
				X	Develop Segment/Systems Operations Manuals		542302	X			0002		
				X	Develop Segment/Systems Operations Manuals - BOC		642306	X			0002		
				X	Develop Segment/Systems Operations Manuals - IOC		642307	X			0002		
				X	Develop Segment/Systems Operations Manuals - FOC		642308	X			0002		
				X	Conduct Productivity Enhancement Studies		542303	X			0002		
				X	Conduct Productivity Enhancement Studies - BOC		642309	X			0002		
				X	Conduct Productivity Enhancement Studies - IOC		642310	X			0002		
				X	Conduct Productivity Enhancement Studies - FOC		642311	X			0002		
				X	Prepare O & M Plan		542304	X			0002		
				X	Prepare O & M Plan - BOC		642312	X			0002		
				X	Prepare O & M Plan - IOC		642313	X			0002		
				X	Prepare O & M Plan - FOC		642314	X			0002		

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	1	2	3	4	5	6								
1			X				Prepare Maintenance & Logistics Plan	542305	X			0002		
			X				Prepare Maintenance & Logistics Plan - BOC	642315	X			0002		
			X				Prepare Maintenance & Logistics Plan - IOC	642316	X			0002		
			X				Prepare Maintenance & Logistics Plan - FOC	642317	X			0002		
			X				Design	342400	X			0002		
			X				Design	442400	X			0002		
			X				Prepare Segment Design Specification Including Requirement Allocation	542400	X			0002		
			X				Prepare Segment Design Specification Including Requirement Allocation - BOC	642400	X			0002		

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	1	2	3	4	5	6							
		X					Provide Data Base Specification	542401	X			0002	
		X					Provide Data Base Specification - BOC	642401	X			0002	
		X					Provide Eng. Specialties Design	542402	X			0002	
		X					Provide Eng. Specialties Design - BOC	642402	X			0002	
		X					Develop Interface Specs.	542403	X			0002	
		X					Develop Interface Specs. - BOC	642405	X			0002	
		X					Develop Interface Specs. - IOC	642406	X			0002	
		X					Develop Interface Specs. - FOC	642407	X			0002	

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	1	2	3	4	5	6							
19		X					Transition & Integration Planning and Support	342500	X			0002	
		X					Transition & Integration Planning and Support	442500	X			0002	
			X				Develop Segment Trans. & Integ. Plan	542500	X			0002	
			X				Develop Segment Trans. & Integ. Plan - BOC	642500	X			0002	
			X				Develop Segment Trans. & Integ. Plan - IOC	642501	X			0002	
			X				Develop Segment Trans. & Integ. Plan - FOC	642502	X			0002	
			X				Support Facility Planning, Installation and Checkout	542501	X			0002	
			X				Support Facility Planning, Installation and Checkout - BOC	642503	X			0002	
			X				Support Facility Planning, Installation and Checkout - IOC	642504	X			0002	
			X				Support Facility Planning, Installation and Checkout - FOC	642505	X			0002	

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	1	2	3	4	5							
20		X				Support Transition of New Capability into the Operational Environment	542502	X		0002		
		X				Support Transition of New Capability into the Operational Environment - BOC	642506	X		0002		
		X				Support Transition of New Capability into the Operational Environment - IOC	642507	X		0002		
		X				Support Transition of New Capability into the Operational Environment - FOC	642508	X		0002		
		X				Test Support	342600	X		0002		
		X				Test Support	442600	X		0002		
		X				Prepare Segment Verification Plan	542600	X		0002		
		X				Prepare Segment Verification Plan - BOC	642600	X		0002		
		X				Prepare Segment Verification Plan - IOC	642601	X		0002		
		X				Prepare Segment Verification Plan - FOC	642602	X		0002		

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	1	2	3	4	5	6							
21			X	Prepare Segment Test Plan and Prepare Procedures	542601		X				0002		
			X	Prepare Segment Test Plan - BOC	642603		X				0002		
			X	Prepare Segment Test Plan - IOC	642604		X				0002		
			X	Prepare Segment Test Plan - FOC	642605		X				0002		
			X	Support the Execution and Evaluation of Tests	542602		X				0002		
			X	Support the Execution and Evaluation of Tests - BOC	642606		X				0002		
			X	Support the Execution and Evaluation of Tests - IOC	642607		X				0002		
			X	Support the Execution and Evaluation of Tests - FOC	642608		X				0002		

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	1	2	3	4	5	6							
22		X					Config. Mgmt. Support	342700	X			0002	
		X					Config. Mgmt. Support	442700	X			0002	
			X				Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control	542700	X			0002	
			X				Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - BOC	642700	X			0002	
			X				Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - IOC	642701	X			0002	
			X				Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - FOC	642702	X			0002	
		X					Technical Reviews	342800	X			0002	
		X					Technical Reviews	442800	X			0002	
			X				PDR Technical Review	542800	X			0002	
			X				PDR Technical Review - BOC	642800	X			0002	

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	1	2	3	4	5	6							
			X	PDR Technical Review - IOC			642801	X			0002		
			X	PDR Technical Review - FOC			642802	X			0002		
		X		CDR Technical Review			542801	X			0002		
		X		CDR Technical Review - BOC			642803	X			0002		
		X		CDR Technical Review - IOC			642804	X			0002		
		X		CDR Technical Review - FOC			642805	X			0002		
		X		SDR Technical Review			542802	X			0002		
		X		SDR Technical Review - BOC			642806	X			0002		

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	1	2	3	4	5	6							
		X					Conduct Technical Audits/Misc. Reviews	542803	X			0002	
			X				Conduct Technical Audits/Misc. Reviews	642809	X			0002	
		X					- BOC						
			X				Conduct Technical Audits/Misc. Reviews	642810	X			0002	
				X			- IOC						
					X		Conduct Technical Audits/Misc. Reviews	642811	X			0002	
							- FOC						

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	1	2	3	4	5	6								
25	X						Software Development (BOC)	243000	X				0003	
		X					Software Development Management - BOC	343100	X				0003	
		X					Software Development Management - BOC	443100	X				0003	
			X				Manage All SW Devel. Activities	543100	X				0003	
			X				Manage All SW Devel. Activities	643001	X				0003	
			X				Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	543101	X				0003	
			X				NPIC Specific Software Training (Univac System & COBOL)	643002	X				0003	
			X				Software Tool Development	643003	X				0003	
			X				Software Engineering	543102	X				0003	
			X				Software Architecture	643004	X				0003	
			X				Technical Support to Subcontract Mgmt.	643005	X				0003	
			X				Segment PPS & C	643007	X				0003	

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	1	2	3	4	5	6							
		X	COBOL Code Conversion				643008	X			0003		
		X	Software Control				543103	X			0003		
		X	Library Control				643009	X			0003		
		X	Software Builds & Releases				643010	X			0003		
		X	Provide Inputs to Segment Devel. Plan				543104	X			0003		
		X	Provide Inputs to Segment Devel. Plan				643011	X			0003		

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	1	2	3	4	5	6							
		X					543105	X			0003		
		X					643012	X			0003		
		X					643014	X			0003		
		X					643015	X			0003		
		X					643016	X			0003		

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	1	2	3	4	5	6							
28							BEPPRE						
	X						CPCI: Pre-Exploitation - BOC	343200	X			0003	
		X					Prelim. Design	44321A	X			0003	
			X				Prepare Prelim. Design Specs	54321A	X			0003	
				X			Requirements Analysis & Allocation	643017	X			0003	
					X		Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643018	X			0003	
						X	Prepare Data Dictionary	643019	X			0003	
							Prepare Prelim. Part II Specs	643020	X		X	0003	
							Prepare CPCI Test Plan (Prelim.) Appendix for BEPPRE	643021				0003	

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	1	2	3	4	5	6						
		X					Critical Design	44322A	X		0003	
			X				Prepare Build-to Design Specs	54322A	X		0003	
			X				Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643022	X		0003	
			X				Prepare Prelim. Programmer's Manual	643023	X		0003	
			X				Prepare CPCI Test Plan (Final) Appendix for BEPPRE	643024		X	0003	
		X					Development	44323A	X		0003	
			X				Develop CPC's	54323A	X		0003	
			X				Code & Unit Test	643025	X		0003	
			X				Integr & Test to CPC Level	643026		X	0003	

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	1	2	3	4	5	6							
		X					44324A		X		0003		
			X				54324A		X		0003		
			X				643027		X		0003		
			X				643028		X		0003		
			X				643029		X		0003		
			X				643030		X		0003		

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	1	2	3	4	5	6							
13		X					Documentation	44325A	X			0003	
		X					Prepare As-built Documentation	54325A	X			0003	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	643031	X			0003	
		X					CPCI Listings As-built	643032	X			0003	
		X					Prepare Programmer's Manual (Final)	643034	X			0003	
		X					Prepare Inputs to Training Manuals	643035	X			0003	
		X					Prepare As-built Part II Specs	643036	X			0003	

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	1	2	3	4	5	6							
X	BEMGMT												
	X	CPCI: Exploitation Management - BOC					343201	X			0003		
	X	Prelim. Design					44321B	X			0003		
	X	Prepare Prelim. Design Specs					54321B	X			0003		
	X	Requirements Analysis & Allocation					643037	X			0003		
	X	Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews					643038	X			0003		
	X	Prepare Data Dictionary					643039	X			0003		
	X	Prepare Prelim. Part II Specs					643040	X			0003		
	X	Prepare CPCI Test Plan (Prelim.) Appendix for BEMGMT					643041		X		0003		

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	1	2	3	4	5	6							
33		X					Critical Design	44322B	X			0003	
			X				Prepare Build-to Design Specs	54322B	X			0003	
				X			Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643042	X			0003	
					X		Prepare Prelim. Programmer's Manual	643043	X			0003	
					X		Prepare CPCI Test Plan (Final) Appendix for BEMGMT	643044	X			0003	
						X	Development	44323B	X			0003	
						X	Develop CPC's	54323B	X			0003	
						X	Code & Unit Test	643045		X		0003	
						X	Integr & Test to CPC Level	643046		X		0003	

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	1	2	3	4	5	6							
	X						Test	44324B		X		0003	
		X					Test	54324B		X		0003	
		X					Test at the CPC and CPC1 Levels	643047		X		0003	
		X					Develop SW Test Procedures	643048		X		0003	
		X					Support Test & Verification	643049		X		0003	
		X					Prepare Test Reports	643050		X		0003	

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	1	2	3	4	5	6							
35		X	Documentation				44325B	X			0003		
		X	Prepare As-built Documentation				54325B	X			0003		
		X	Prepare Inputs to User, Operator and Data Base Administration Manuals				643051	X			0003		
		X	CPCI Listings As-built				643052	X			0003		
		X	Prepare Programmer's Manual (Final)				643053	X			0003		
		X	Prepare Inputs to Training Manuals				643054	X			0003		
		X	Prepare As-built Part II Specs				643055	X			0003		

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	1	2	3	4	5							
						BERESU						
	X					CPCI: Exploitation Results - BOC	343202	X			0003	
		X				Prelim. Design	44321C	X			0003	
			X			Prepare Prelim. Design Specs	54321C	X			0003	
				X		Requirements Analysis & Allocation	643056	X			0003	
					X	Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643057	X			0003	
						Prepare Data Dictionary	643058	X			0003	
						Prepare Prelim Part II Specs	643059	X			0003	
						Prepare CPCI Test Plan (Prelim) Appendix for BERESU	643060		X		0003	

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	1	2	3	4	5	6							
1	X						Critical Design	44322C	X			0003	
		X					Prepare Build-to Design Specs	54322C	X			0003	
		X					Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643061	X			0003	
		X					Prepare Prelim. Programmer's Manual	643062	X			0003	
		X					Prepare CPCI Test Plan (Final) Appendix for BERESU	643063		X		0003	
		X					Development	44323C	X			0003	
		X					Develop CPC's	54323C	X			0003	
		X					Code & Unit Test	643064		X		0003	
		X					Integr. & Test to CPC Level	643065		X		0003	

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	1	2	3	4	5	6							
	X						Test	44324C		X		0003	
		X					Test	54324C		X		0003	
		X					Test at the CPC and CPCI Levels	643066		X		0003	
		X					Develop SW Test Procedures	643067		X		0003	
		X					Support Test & Verification	643068		X		0003	
		X					Prepare Test Reports	643069		X		0003	

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	1	2	3	4	5	6							
		X	Documentation				44325C	X			0003		
		X	Prepare As-built Documentation				54325C	X			0003		
		X	CPCI Listings As-built				643071	X			0003		
		X	Prepare As-built Part II Specs				643074	X			0003		

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	1	2	3	4	5	6							
							BMANIP						
	X						CPCI: Data Manipulation - BOC	343204	X			0003	
		X					Prelim. Design	44321E	X			0003	
		X					Prepare Prelim. Design Specs.	54321E	X			0003	
		X					Requirements Analysis & Allocation	643094	X			0003	
		X					Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643301	X			0003	
		X					Prepare Data Dictionary	643095	X			0003	
		X					Prepare Prelim. Part II Specs.	643096	X			0003	
		X					Prepare CPCI Test Plan (Prelim.) Appendix for BMANIP	643097		X		0003	

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	1	2	3	4	5	6							
41		X					44322E	X			0003		
		X					54322E	X			0003		
		X					643098	X			0003		
		X					643099	X			0003		
		X					643100	X			0003		
		X					44323E	X			0003		
		X					54323E	X			0003		
		X					643101	X			0003		
		X					643102		X		0003		

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	1	2	3	4	5	6							
		X					44324E		X		0003		
			X				54324E		X		0003		
			X				643103		X		0003		
			X				643104		X		0003		
			X				643105		X		0003		
			X				643106		X		0003		

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	1	2	3	4	5	6							
		X					Documentation	44325E	X			0003	
		X					Prepare As-built Documentation	54325E	X			0003	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	643107	X			0003	
		X					CPCI Listings As-built	643108	X			0003	
		X					Prepare Programmer's Manual (Final)	643109	X			0003	
		X					Prepare Inputs to Training Manuals	643110	X			0003	
		X					Prepare As-built Part II Specs	643111	X			0003	

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	1	2	3	4	5	6								
1							BSTATR							
	X						CPCI: Statistics Reporting - BOC	343205	X			0003		
		X					Prelim. Design	44321F	X			0003		
		X					Prepare Prelim. Design Specs.	54321F	X			0003		
		X					Requirements Analysis & Allocation	643112	X			0003		
		X					Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643113	X			0003		
		X					Prepare Data Dictionary	643114	X			0003		
		X					Prepare Prelim. Part II Specs.	643115	X			0003		
		X					Prepare CPCI Test Plan (Prelim.) Appendix to BSTATR	643116		X		0003		

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	1	2	3	4	5	6							
54		X					44322F	X			0003		
			X				54322F	X			0003		
				X			643117	X			0003		
					X		643118	X			0003		
						X	643119		X		0003		
							44323F	X			0003		
							54323F	X			0003		
							643120		X		0003		
							643121			X	0003		

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	1	2	3	4	5	6								
	X						Test	44324F		X		0003		
		X					Test	54324F		X		0003		
		X					Test at the CPC and CPC1 Levels	643122		X		0003		
		X					Develop SW Test Procedures	643123		X		0003		
		X					Support Test & Verification	643124		X		0003		
		X					Prepare Test Reports	643125		X		0003		

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	1	2	3	4	5	6							
		X					Documentation	44325F	X			0003	
			X				Prepare As-built Documentation	54325F	X			0003	
			X				CPCI Listings As-built	643127	X			0003	
			X				Prepare As-built Part II Specs.	643130	X			0003	

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	1	2	3	4	5	6							
X	BMMGMT												
	X	CPCI: Materials Management - BOC					343207	X			0003		
	X	Prelim. Design					44321H	X			0003		
	X	Prepare Prelim. Design Specs.					54321H	X			0003		
	X	Requirements Analysis & Allocation					643149	X			0003		
	X	Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews					643150	X			0003		
	X	Prepare Data Dictionary					643151	X			0003		
	X	Prepare CPCI Test Plan (Prelim.) Appendix for BMMGMT					643153		X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Critical Design	44322H	X			0003	
			X				Prepare Build-to Design Specs	54322H	X			0003	
			X				Prepare Prelim. Programmer's Manual	643155	X			0003	
			X				Prepare CPCI Test Plan (Final) Appendix for BMMGMT	643156	X			0003	
			X				Development	44323H	X			0003	
			X				Develop CPC's	54323H	X			0003	
			X				Integr. & Test to CPC Level	643158		X		0003	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					44324H		X		0003		
		X					54324H		X		0003		
		X					643159		X		0003		
		X					643160		X		0003		
		X					643161		X		0003		
		X					643162		X		0003		

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. <u> </u>			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44325H	X			0003	
			X				Prepare As-built Documentation	54325H	X			0003	
				X			CPCI Listings As-built	643163	X			0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6						
53		X					Critical Design	44322I	X		0003	
			X				Prepare Build-to Design Specs.	54322I	X		0003	
			X				Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643172	X		0003	
			X				Prepare Prelim. Programmer's Manual	643173	X		0003	
			X				Prepare CPCI Test Plan (Final) Appendix for BCCNTR	643174		X	0003	
			X				Development	44323I	X		0003	
			X				Develop CPC's	54323I	X		0003	
			X				Code & Unit Test	643175		X	0003	
			X				Integr. & Test to CPC Level	643176		X	0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					44324I		X		0003		
		X					54324I		X		0003		
		X					643177		X		0003		
		X					643178		X		0003		
		X					643179		X		0003		
		X					643180		X		0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44325I	X			0003	
			X				Prepare As-built Documentation	54325I	X			0003	
				X			CPCI Listings As-built	643182	X			0003	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
							BQUERY						
	X						CPCI: Query - BOC	343209	X			0003	
		X					Prelim. Design	44321J	X			0003	
		X					Prepare Prelim. Design Specs.	54321J	X			0003	
		X					Requirements Analysis & Allocation	643186	X			0003	
		X					Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643187	X			0003	
		X					Prepare Data Dictionary	643188	X			0003	
		X					Prepare Prelim. Part II Specs.	643189	X			0003	
		X					Prepare CPCI Test Plan (Prelim.) Appendix for BQUERY	643190		X		0003	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS					WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5							
	X					Critical Design	44322J	X		0003		
		X				Prepare Build-to Design Specs.	54322J	X		0003		
		X				Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643191	X		0003		
		X				Prepare CPC1 Test Plan (Final) Appendix for BQUERY	643192		X	0003		
	X					Development	44323J	X		0003		
		X				Develop CPC's	54323J	X		0003		
		X				Code & Unit Test	643193	X		0003		
		X				Integr. & Test to CPC Level	643194		X			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44324J		X		0003		
		X					54324J		X		0003		
		X					643195		X		0003		
		X					643196		X		0003		
		X					643197		X		0003		
		X					643198		X		0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44325J	X			0003	
		X					Prepare As-built Documentation	54325J	X			0003	
		X					CPCI Listings As-built	643200	X			0003	
		X					Prepare As-built Part II Specs.	643203	X			0003	

WORK BREAKDOWN STRUCTURE INDEX			PROGRAM NPIC D/C SEGMENT				RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82				
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
X							BAPPLS						
	X						CPCI: Application Support - BOC	343210	X			0003	
		X					Prelim. Design	44321K	X			0003	
		X					Prepare Prelim. Design Specs.	54321K	X			0003	
		X					Requirements Analysis & Allocation	643204	X			0003	
		X					Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643205	X			0003	
		X					Prepare Data Dictionary	643206	X			0003	
		X					Prepare Prelim. Part II Specs.	643207	X			0003	
							Prepare CPCI Test Plan (Prelim.) Appendix for BAPPLS	643208		X			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
19		X					Critical Design	44322K	X			0003				
			X				Prepare Build-to Design Specs.	54322K	X			0003				
			X				Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643209	X			0003				
			X				Prepare Prelim. Programmer's Manual	643210	X			0003				
			X				Prepare CPC1 Test Plan (Final) Appendix for BAPPLS	643211		X		0003				
		X					Development	44323K	X			0003				
			X				Develop CPC's	54323K	X			0003				
			X				Code & Unit Test	643212		X		0003				
			X				Integr. & Test to CPC Level	643213		X		0003				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					44324K		X		0003		
		X					54324K		X		0003		
		X					643214		X		0003		
		X					643215		X		0003		
		X					643216		X		0003		
		X					643217		X		0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DESDEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Documentation	44325K	X			0003	
		X					Prepare As-built Documentation	54325K	X			0003	
		X					CPCI Listings As-built	643219	X			0003	
		X					Prepare Programmer's Manual (Final)	643220	X			0003	
		X					Prepare Inputs to Training Manuals	643221	X			0003	
		X					Prepare As-built Part II Specs.	643222	X			0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
							BDMAPS						
	X						CPCI: DBM Application Support - BOC	343211	X			0003	
		X					Prelim. Design	44321L	X			0003	
			X				Prepare Prelim. Design Specs.	54321L	X			0003	
				X			Requirements Analysis & Allocation	643223	X			0003	
					X		Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643224	X			0003	
						X	Prepare Data Dictionary	643225	X			0003	
						X	Prepare Prelim. Part II Specs.	643226	X			0003	
						X	Prepare CPCI Test Plan (Prelim.) Appendix for BDMAPS	643227		X		0003	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPI/C D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Critical Design	44322L	X			0003	
			X				Prepare Build-to Design Specs	54322L	X			0003	
			X				Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643228	X			0003	
			X				Prepare Prelim. Programmer's Manual	643229	X			0003	
			X				Prepare CPC1 Test Plan (Final) Appendix for BDMAPS	643230		X		0003	
		X					Development	44323L	X			0003	
			X				Develop CPC's	54323L	X			0003	
			X				Code & Unit Test	643231		X		0003	
			X				Integr. & Test to CPC Level	643232		X		0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test	44324L		X		0003	
			X				Test	54324L		X		0003	
		X					Test at the CPC and CPCI Levels	643233		X		0003	
			X				Develop SW Test Procedures	643234		X		0003	
		X					Support Test & Verification	643235		X		0003	
			X				Prepare Test Reports	643236		X		0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44325L	X			0003		
		X					54325L	X			0003		
		X					643238	X			0003		
		X					643241	X			0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
X							BTTDEV						
	X						CPCI: Test & Training - BOC	343212	X			0003	
		X					Prelim. Design	44321M	X			0003	
		X					Prepare Prelim. Design Part I Specs.	54321M	X			0003	
		X					Requirements Analysis & Allocation	643242	X			0003	
		X					Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643243	X			0003	
		X					Prepare Data Dictionary	643244	X			0003	
		X					Prepare Prelim. Part II Specs.	643245	X			0003	
							Prepare CPCI Test Plan (Prelim.) Appendix for BTTDEV	643246		X		0003	

Prelim. design costs for this CPCI were erroneously budgeted under WBS #54322M, page 69.

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
X	X	Critical Design					44322M	X			0003		
	X	Prepare Build-to Design Specs					54322M	X			0003		
	X	Prepare Build-to Part II Specs and Conduct Internal Design Reviews					643247	X			0003		
	X	Prepare Prelim. Programmer's Manual					643248	X			0003		
	X	Prepare CPC1 Test Plan (Final) Appendix for BTTDEV					643249		X		0003		
	X	Development					44323M	X			0003		
	X	Develop CPC's					54323M	X			0003		
	X	Code & Unit Test					643250	X			0003		
	X	Integr. & Test to CPC Level					643251		X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44324M		X		0003		
		X					54324M		X		0003		
		X					643252		X		0003		
		X					643253		X		0003		
		X					643254		X		0003		
		X					643255		X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
		X					Documentation	44325M	X			0003		
			X				Prepare As-built Documentation	54325M	X			0003		
			X				Prepare Inputs to User, Operator and Data Base Administration Manuals	643256	X			0003		
			X				CPCI Listings As-built	643257	X			0003		
			X				Prepare Programmer's Manual (Final)	643258	X			0003		
			X				Prepare Inputs to Training Manuals	643259	X			0003		
			X				Prepare As-built Part II Specs.	643260	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	TEST	MANUF	DEVEL	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
WAPPLS CPCI: Work Station Applications - BOC	X						343213	X			0003		
	X						44321N	X			0003		
	X						54321N	X			0003		
	X						643261	X			0003		
	X						643262	X			0003		
	X						643263	X			0003		
	X						643264	X			0003		
	X						643265		X		0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
73		X					Critical Design	44322N	X			0003			
			X				Prepare Build-to Design Specs.	54322N	X			0003			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643266	X			0003			
					X		Prepare Prelim. Programmer's Manual	643267	X			0003			
						X	Prepare CPCI Test Plan (Final) Appendix for WAPPLS	643268		X		0003			
							Development	44323N	X			0003			
							Develop CPC's	54323N	X			0003			
							Code & Unit Test	643269		X		0003			
							Integr. & Test to CPC Level	643270		X		0003			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44324N		X		0003		
		X					54324N		X		0003		
		X					643271		X		0003		
		X					643272		X		0003		
		X					643273		X		0003		
		X					643274		X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44325N	X			0003	
		X					Prepare As-built Documentation	54325N	X			0003	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	643275	X			0003	
		X					CPCI Listings As-built	643276	X			0003	
		X					Prepare Programmer's Manual (Final)	643277	X			0003	
		X					Prepare Inputs to Training Manuals	643278	X			0003	
		X					Prepare As-built Part II Specs.	643279	X			0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
97	X						BEXSUP						
	X						CPCI: Exploitation Support - BOC	343214	X			0003	
	X						Prelim. Design	443210	X			0003	
	X						Prepare Prelim. Design Specs.	543210	X			0003	
	X						Requirements Analysis & Allocation	643280	X			0003	
	X						Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643281	X			0003	
	X						Prepare Data Dictionary	643282	X			0003	
	X						Prepare Prelim. Part II Specs.	643284	X			0003	
	X						Prepare CPCI Test Plan (Prelim.) Appendix for BEXSUP	643285		X		0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
77		X					Critical Design	44322□	X			0003		
			X				Prepare Build-to Design Specs.	54322□	X			0003		
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643286	X			0003		
					X		Prepare Prelim. Programmer's Manual	643287	X			0003		
					X		Prepare CPC1 Test Plan (Final) Appendix for BEXSUP	643288		X		0003		
						X	Development	44323□	X			0003		
						X	Develop CPC's	54323□	X			0003		
						X	Code & Unit Test	643289		X		0003		
						X	Integr. & Test to CPC Level	643290		X		0003		

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	1	2	3	4	5	6							
	X						443240		X		0003		
		X					543240		X		0003		
		X					643291		X		0003		
		X					643292		X		0003		
		X					643293		X		0003		
		X					643294		X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44325□	X			0003	
		X					Prepare As-built Documentation	54325□	X			0003	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	643295	X			0003	
		X					CPCI Listings As-built	643296	X			0003	
		X					Prepare Programmer's Manual (Final)	643298	X			0003	
		X					Prepare Inputs to Training Manuals	643299	X			0003	
		X					Prepare As-built Part II Specs.	643300	X			0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
08	X						Software Development (IOC)	244000	X			0004	
		X					Software Development Management	344100	X			0004	
		X					Software Development Management	444100	X			0004	
			X				Manage All SW Devel. Activities	544100	X			0004	
			X				Manage All SW Devel. Activities	644001	X			0004	
			X				Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	544101	X			0004	
			X				Software Engineering	644005	X			0004	
			X				Software Architecture	544102	X			0004	
			X				Tech. Support to Subcontract Mgm't. Software Trade Studies	644006	X			0004	

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	1	2	3	4	5	6							
		X	COBOL Code Conversion				644007	X			0004		
		X	Software Control				644008	X			0004		
		X	Library Control				544103	X			0004		
		X	Software Builds & Releases				644009	X			0004		
		X	Provide Inputs to Segment Devel. Plan				544104	X			0004		
		X	Provide Inputs to Segment Devel. Plan				644010	X			0004		

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	1	2	3	4	5	6							
		X					544105	X			0004		
		X					644012	X			0004		
		X					644013	X			0004		
		X					644014	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
E8							BEPPRE						
	X						CPCI: Pre-Exploitation - IOC	344200	X			0004	
		X					Critical Design	44422A	X			0004	
			X				Prepare Build-to Design Specs.	54422A	X			0004	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644015	X			0004	
					X		Prepare Prelim. Programmer's Manual	644016	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BEPPRE	644017		X		0004	
							Development	44423A	X			0004	
							Develop CPC's	54423A	X			0004	
							Code & Unit Test	644018		X		0004	
							Integr. & Test to CPC Level	644019		X		0004	

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	1	2	3	4	5	6							
	X						44424A		X		0004		
		X					54424A		X		0004		
		X					644020		X		0004		
		X					644021		X		0004		
		X					644022		X		0004		
		X					644023		X		0004		

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	1	2	3	4	5	6							
		X					Documentation	44425A	X		0004		
		X					Prepare As-built Documentation	54425A	X		0004		
		X					CPCI Listings As-built	644025	X		0004		
		X					Prepare Programmer's Manual (Final)	644026	X		0004		
		X					Prepare As-built Part II Specs.	644028	X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
98							BEMGMT							
	X						CPCI: Exploitation Management - IOC	344201	X			0004		
		X					Critical Design	44422B	X			0004		
			X				Prepare Build-to Design Specs.	54422B	X			0004		
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644029	X			0004		
					X		Prepare Prelim. Programmer's Manual	644030	X			0004		
					X		Prepare CPCI Test Plan (Final) Appendix for BEMGMT	644031		X		0004		
						X	Development	44423B	X			0004		
						X	Develop CPC's	54423B	X			0004		
						X	Code & Unit Test	644032		X		0004		
						X	Integr. & Test to CPC Level	644033		X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test	44424B		X		0004	
			X				Test	54424B		X		0004	
			X				Test at the CPC & CPCI Levels	644034		X		0004	
			X				Develop SW Test Procedures	644035		X		0004	
			X				Support Test & Verification	644036		X		0004	
			X				Prepare Test Reports	644037		X		0004	

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	1	2	3	4	5	6							
	X						Documentation	44425B	X			0004	
		X					Prepare As-built Documentation	54425B	X			0004	
		X					CPCI Listings As-built	644039	X			0004	
		X					Prepare Programmer's Manual (Final)	644040	X			0004	
		X					Prepare Inputs to Training Manuals	644041	X			0004	
		X					Prepare As-built Part II Specs.	644042	X			0004	

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	1	2	3	4	5	6							
68							BERESU						
	X						CPCI: Exploitation Results - IOC	344202	X			0004	
		X					Critical Design	44422C	X			0004	
			X				Prepare Build-to Design Specs.	54422C	X			0004	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644043	X			0004	
					X		Prepare Prelim. Programmer's Manual	644044	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BERESU	644045		X		0004	
							Development	44423C	X			0004	
							Develop CPC's	54423C	X			0004	
							Code & Unit Test	644046		X		0004	
							Integr. & Test to CPC Level	644047		X		0004	

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	1	2	3	4	5	6							
		X					44424C	X			0004		
			X				54424C	X			0004		
			X				644048	X			0004		
			X				644049	X			0004		
			X				644050	X			0004		
			X				644051	X			0004		

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	1	2	3	4	5	6							
T6		X					Documentation	44425C	X			0004	

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	1	2	3	4	5	6							
92													
	X						BMANIP						
		X					CPCI: Data Manipulation - IOC	344203	X			0004	
			X				Critical Design	44422D	X			0004	
				X			Prepare Build-to Design Specs.	54422D	X			0004	
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644057	X			0004	
						X	Prepare Prelim. Programmer's Manual	644058	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BMANIP	644059		X		0004	
						X	Development	44423D	X			0004	
						X	Develop CPC's	54423D	X			0004	
						X	Code & Unit Test	644060		X		0004	
						X	Integr. & Test to CPC Level	644061		X		0004	

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LINE ON	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANU	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44424D		X		0004		
		X					54424D		X		0004		
		X					644062		X		0004		
		X					644063		X		0004		
		X					644064		X		0004		
		X					644065		X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44425D	X			0004	
		X					Prepare As-built Documentation	54425D	X			0004	
		X					Prepare Inputs to User, Operator and Data Base Admin. Manuals	644066	X			0004	
		X					CPCI Listings As-built	644067	X			0004	
		X					Prepare Programmer's Manual (Final)	644068	X			0004	
		X					Prepare Inputs to Training Manuals	644069	X			0004	
		X					Prepare As-built Part II Specs.	644070	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
56							BSTATR						
	X						CPCI: Statistics Reporting - IOC	344204	X			0004	
		X					Critical Design	44422E	X			0004	
			X				Prepare Build-to Design Specs.	54422E	X			0004	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644071	X			0004	
					X		Prepare Prelim. Programmer's Manual	644072	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BSTATR	644073		X		0004	
							Development	44423E	X			0004	
							Develop CPC's	54423E	X			0004	
							Code & Unit Test	644074		X		0004	
							Integr. & Test to CPC Level	644075		X		0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test	44424E		X		0004	
			X				Test	54424E		X		0004	
			X				Test at the CPC & CPCI Levels	644076		X		0004	
			X				Develop SW Test Procedures	644077		X		0004	
			X				Support Test & Verification	644078		X		0004	
			X				Prepare Test Reports	644079		X		0004	

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	1	2	3	4	5	6							
		X					Documentation	44425E	X			0004	
		X					Prepare As-built Documentation	54425E	X			0004	
		X					CPCI Listings As-built	644082	X			0004	
		X					Prepare Programmer's Manual (Final)	644083	X			0004	
		X					Prepare As-built Part II Specs.	644085	X			0004	

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	1	2	3	4	5	6									
86							BMMGMT								
	X						CPCI: Materials Management - IOC	344206	X			0004			
		X					Critical Design	44422G	X			0004			
		X					Prepare Build-to Design Specs.	54422G	X			0004			
		X					Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644100	X			0004			
		X					Prepare Prelim. Programmer's Manual	644101	X			0004			
		X					Prepare CPCI Test Plan (Final) Appendix for BMMGMT	644102		X		0004			
		X					Development	44423G	X			0004			
		X					Develop CPC's	54423G	X			0004			
		X					Code & Unit Test	644103		X		0004			
		X					Integr. & Test to CPC Level	644104		X		0004			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44424G		X		0004		
		X					54424G		X		0004		
		X					644105		X		0004		
		X					644106		X		0004		
		X					644107		X		0004		
		X					644108		X		0004		

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	1	2	3	4	5	6							
001		X					Documentation	44425G	X			0004	
		X					Prepare As-built Documentation	54425G	X			0004	
		X					CPCI Listings As-built	644110	X			0004	

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	1	2	3	4	5	6							
101							BCCNTR						
	X						CPCI: Command & Control - IOC	344207	X			0004	
		X					Critical Design	44422H	X			0004	
		X					Prepare Build-to Design Specs.	54422H	X			0004	
		X					Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644114	X			0004	
		X					Prepare Prelim. Programmer's Manual	644115	X			0004	
		X					Prepare CPC1 Test Plan (Final) Appendix for BCCNTR	644116		X		0004	
		X					Development	44423H	X			0004	
		X					Develop CPC's	54423H	X			0004	
		X					Code & Unit Test	644117		X		0004	
		X					Integr. & Test to CPC Level	644118		X		0004	

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	1	2	3	4	5	6		MANUF	TEST					
		X					44424H		X	0004				
			X				54424H		X	0004				
			X				644119		X	0004				
			X				644120		X	0004				
			X				644121		X	0004				
			X				644122		X	0004				

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	1	2	3	4	5	6							
		X					Documentation	44425H	X			0004	
			X				Prepare As-built Documentation	54425H	X			0004	
			X				Prepare Inputs to User, Operator and Data Base Administration Manuals	644123	X			0004	
			X				CPCI Listings As-built	644124	X			0004	
			X				Prepare Inputs to Training Manuals	644126	X			0004	
			X				Prepare As-built Part II Specs.	644127	X			0004	

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	1	2	3	4	5	6							
104							BQUERY						
	X						CPCI: Query - IOC	344208	X			0004	
		X					Critical Design	44422I	X			0004	
		X					Prepare Build-to Design Specs.	54422I	X			0004	
		X					Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644128	X			0004	
		X					Prepare Prelim. Programmer's Manual	644129	X			0004	
		X					Prepare CPCI Test Plan (Final) Appendix for BQUERY	644130		X		0004	
		X					Development	44423I	X			0004	
		X					Develop CPC's	54423I	X			0004	
		X					Code & Unit Test	644131		X		0004	
		X					Integr. & Test to CPC Level	644132		X		0004	

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	1	2	3	4	5	6									
		X					Test	44424I		X		0004			
			X				Test	54424I		X		0004			
			X				Test at the CPC & CPCI Levels	644133		X		0004			
			X				Develop SW Test Procedures	644134		X		0004			
			X				Support Test & Verification	644135		X		0004			
			X				Prepare Test Reports	644136		X		0004			

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	1	2	3	4	5	6							
		X					Documentation	44425I	X			0004	
		X					Prepare As-built Documentation	54425I	X			0004	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	644137	X			0004	
		X					CPCI Listings As-built	644138	X			0004	
		X					Prepare Programmer's Manual (Final)	644139	X			0004	
		X					Prepare Inputs to Training Manuals	644140	X			0004	
		X					Prepare As-built Part II Specs.	644141	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
107							BAPPLS						
	X						CPCI: Applications Support - IOC	344209	X			0004	
		X					Critical Design	44422J	X			0004	
			X				Prepare Build-to Design Specs.	54422J	X			0004	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644142	X			0004	
					X		Prepare Prelim. Programmer's Manual	644143	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BAPPLS	644144		X		0004	
							Development	44423J	X			0004	
							Develop CPC's	54423J	X			0004	
							Code & Unit Test	644145		X		0004	
							Integr. & Test to CPC Level	644146		X		0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test	44424J		X		0004	
		X					Test	54424J		X		0004	
		X					Test at the CPC & CPCI Levels	644147		X		0004	
		X					Develop SW Test Procedures	644148		X		0004	
		X					Support Test & Verification	644149		X		0004	
		X					Prepare Test Reports	644150		X		0004	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
	X						Documentation	44425J	X		0004				
		X					Prepare As-built Documentation	54425J	X		0004				
		X					CPCI Listings As-built	644152	X		0004				
		X					Prepare Programmer's Manual (Final)	644153	X		0004				
		X					Prepare Inputs to Training Manuals	644154	X		0004				
		X					Prepare As-built Part II Specs.	644155	X		0004				
														These documentation costs were erroneously budgeted in WBS #54423J, Develop CPC's, page 107.	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
011							BDMAPS									
	X						CPCI: DBM Application Support - IOC	344210	X			0004				
		X					Critical Design	44422K	X			0004				
			X				Prepare Build-to Design Specs.	54422K	X			0004				
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644156	X			0004				
					X		Prepare Prelim. Programmer's Manual	644157	X			0004				
						X	Prepare CPCI Test Plan (Final) Appendix for BDMAPS	644158		X		0004				
							Development	44423K	X			0004				
						X	Develop CPC's	54423K	X			0004				
							Code & Unit Test	644159		X		0004				
						X	Integr. & Test to CPC Level	644160		X		0004				

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test	44424K		X		0004	
			X				Test	54424K		X		0004	
			X				Test at the CPC & CPCI Levels	644161		X		0004	
			X				Develop SW Test Procedures	644162		X		0004	
			X				Support Test & Verification	644163		X		0004	
			X				Prepare Test Reports	644164		X		0004	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X	Documentation				44425K	X			0004		
		X	Prepare As-built Documentation				54425K	X			0004		
		X	CPCI Listings As-built				644166	X			0004		
		X	Prepare Programmer's Manual (Final)				644167	X			0004		
		X	Prepare Inputs to Training Manuals				644168	X			0004		
		X	Prepare As-built Part II Specs.				644169	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
113													
	X						BTTDEV						
		X					CPCI: Test & Training - IOC	344211	X			0004	
			X				Critical Design	44422L	X			0004	
				X			Prepare Build-to Design Specs.	54422L	X			0004	
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644170	X			0004	
						X	Prepare Prelim. Programmer's Manual	644171	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BTTDEV	644172		X		0004	
							Development	44423L	X			0004	
						X	Develop CPC's	54423L	X			0004	
						X	Code & Unit Test	644173		X		0004	
						X	Integr. & Test to CPC Level	644174		X		0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						44424L		X		0004		
		X					54424L		X		0004		
		X					644175		X		0004		
		X					644176		X		0004		
		X					644177		X		0004		
		X					644178		X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Documentation	44425L	X			0004	
		X					Prepare As-built Documentation	54425L	X			0004	
		X					Prepare Inputs to User, Operator and Data Base Admin. Manuals	644179	X			0004	
		X					CPCI Listings As-built	644180	X			0004	
		X					Prepare Programmer's Manual (Final)	644181	X			0004	
		X					Prepare Inputs to Training Manuals	644182	X			0004	
		X					Prepare As-built Part II Specs.	644183	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
111							WAPPLS							
	X						CPCI: Work Station Applications - IOC	344212	X			0004		
		X					Critical Design	44422M	X			0004		
			X				Prepare Build-to Design Specs.	54422M	X			0004		
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644184	X			0004		
					X		Prepare Prelim. Programmer's Manual	644185	X			0004		
						X	Prepare CPCI Test Plan (Final) Appendix for WAPPLS	644186		X		0004		
							Development	44423M	X			0004		
							Develop CPC's	54423M	X			0004		
							Code & Unit Test	644187		X		0004		
							Integr. & Test to CPC Level	644188		X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					44424M		X		0004		
		X					54424M		X		0004		
		X					644189		X		0004		
		X					644190		X		0004		
		X					644191		X		0004		
		X					644192		X		0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Documentation	44425M	X			0004	
		X					Prepare As-built Documentation	54425M	X			0004	
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	644193	X			0004	
		X					CPCI Listings As-built	644194	X			0004	
		X					Prepare Programmer's Manual (Final)	644195	X			0004	
		X					Prepare Inputs to Training Manuals	644196	X			0004	
		X					Prepare As-built Part II Specs.	644197	X			0004	

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	1	2	3	4	5	6							
119							BEXSUP						
	X						CPCI: Exploitation Support - IOC	344213	X			0004	
		X					Critical Design	44422N	X			0004	
			X				Prepare Build-to Design Specs.	54422N	X			0004	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644198	X			0004	
					X		Prepare Prelim. Programmer's Manual	644199	X			0004	
						X	Prepare CPCI Test Plan (Final) Appendix for BEXSUP	644200		X		0004	
							Development	44423N	X			0004	
							Develop CPC's	54423N	X			0004	
							Code & Unit Test	644201		X		0004	
							Integr. & Test to CPC Level	644202		X		0004	

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	1	2	3	4	5							
		X				Test	44424N		X	0004		
		X				Test	54424N		X	0004		
		X				Test at the CPC & CPCI Levels	644203		X	0004		
		X				Develop SW Test Procedures	644204		X	0004		
		X				Support Test & Verification	644205		X	0004		
		X				Prepare Test Reports	644206		X	0004		

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	1	2	3	4	5	6							
	X						Documentation	44425N	X			0004	
		X					Prepare As-built Documentation	54425N	X			0004	
		X					CPCI Listings As-built	644208	X			0004	
		X					Prepare Programmer's Manual (Final)	644209	X			0004	
		X					Prepare Inputs to Training Manuals	644210	X			0004	
		X					Prepare As-built Part II Specs.	644211	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6						
	X						Software Development (FOC)	245000	X		0005	
		X					Software Development Management	345100	X		0005	
			X				Software Development Management	445100	X		0005	
				X			Manage All SW Devel. Activities	545100	X		0005	
					X		Manage All SW Devel. Activities	645001	X		0005	
						X	Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	545101	X		0005	Reserved
						X	Software Architecture	545102	X		0005	
						X	Software Engineering	645004	X		0005	
						X	Tech. Support to Subcontract Mgm't.	645005	X		0005	Reserved

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					645008	X			0005		
		X					545103	X			0005		
		X					645009	X			0005		
		X					545104	X			0005	Reserved	
		X					645010	X			0005	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					545105	X			0005	Reserved	
		X					645013	X			0005	Reserved	
		X					645014	X			0005	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
125							BMMGMT								
	X						CPCI: Materials Management - FOC	345200	X			0005			
		X					Critical Design	44522A	X			0005			
			X				Prepare Build-to Design Specs.	54522A	X			0005			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645015	X			0005			
					X		Prepare Prelim. Programmer's Manual	645016	X			0005			
						X	Prepare CPCI Test Plan (Final) Appendix for BMMGMT	645017		X		0005			
							Development	44523A	X			0005			
							Develop CPC's	54523A	X			0005			
							Code & Unit Test	645018		X		0005			
							Integr. & Test to CPC Level	645019		X		0005			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
		X					44524A		X		0005				
		X					54524A		X		0005				
		X					645020		X		0005				
		X					645021		X		0005				
		X					645022		X		0005				
		X					645023		X		0005				

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	1	2	3	4	5	6								
		X					Documentation	44525A	X			0005		
		X					Prepare As-built Documentation	54525A	X			0005		
		X					Prepare Inputs to User, Operator and Data Base Administration Manuals	645024	X			0005		
		X					CPCI Listings As-built	645025	X			0005		
		X					Prepare Programmer's Manual (Final)	645026	X			0005		
		X					Prepare Inputs to Training Manuals	645027	X			0005		
		X					Prepare As-built Part II Specs.	645028	X			0005		

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	1	2	3	4	5	6							
128							BCCNTR						
	X						CPCI: Command & Control - FOC	345201	X			0005	
		X					Critical Design	44522B	X			0005	
			X				Prepare Build-to Design Specs.	54522B	X			0005	
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645029	X			0005	
					X		Prepare Prelim. Programmer's Manual	645030	X			0005	
						X	Prepare CPCI Test Plan (Final) Appendix for BCCNTR	645031		X		0005	
							Development	44523B	X			0005	
							Develop CPC's	54523B	X			0005	
							Code & Unit Test	645032	X			0005	
							Integr. & Test to CPC Level	645033		X		0005	

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	1	2	3	4	5	6							
		X					44524B		X		0005		
		X					54524B		X		0005		
		X					645034		X		0005		
		X					645035		X		0005		
		X					645036		X		0005		
		X					645037		X		0005		

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	1	2	3	4	5	6										
		X					Documentation	44525B	X			0005				
		X					Prepare As-built Documentation	54525B	X			0005				
		X					CPCI Listings As-built	645039	X			0005				
		X					Prepare Programmer's Manual (Final)	645040	X			0005				
		X					Prepare As-built Part II Specs.	645042	X			0005				

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	1	2	3	4	5	6								
131							BTTDEV							
	X						CPCI: Test & Training - FOC	345202	X			0005		
		X					Critical Design	44522C	X			0005		
		X					Prepare Build-to Design Specs.	54522C	X			0005		
		X					Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645043	X			0005		
		X					Prepare Prelim. Programmer's Manual	645044	X			0005		
		X					Prepare CPCI Test Plan (Final) Appendix for BTTDEV	645045		X		0005		
		X					Development	44523C	X			0005		
		X					Develop CPC's	54523C	X			0005		
		X					Code & Unit Test	645046		X		0005		
		X					Integr. & Test to CPC Level	645047		X		0005		

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	1	2	3	4	5	6							
		X					Test			X		0005	
		X					Test			X		0005	
		X					Test at the CPC & CPCI Levels			X		0005	
		X					Develop SW Test Procedures			X		0005	
		X					Support Test & Verification			X		0005	
		X					Prepare Test Reports			X		0005	

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	1	2	3	4	5	6							
		X					Documentation	44525C	X			0005	
		X					Prepare As-built Documentation	54525C	X			0005	
		X					Prepare Inputs to User, Operator and Data Base Admin. Manuals	645052	X			0005	
		X					CPCI Listings As-built	645053	X			0005	
		X					Prepare Programmers Manual, Final	645054	X			0005	
		X					Prepare Inputs to Training Manuals	645055	X			0005	
		X					Prepare As-built Part II Specs.	645056	X			0005	

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	1	2	3	4	5	6									
1	X						Hardware Development (BOC)	246000	X			0006			
		X					Hardware Development Management BOC	346100	X			0006			
		X					Hardware Development Management BOC	446100	X			0006			
			X				Manage All Hardware Development	546100	X			0006			
			X				Manage All Hardware Development	646100	X			0006			
			X				Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	546101	X			0006	Reserved		
			X				Provide Inputs to Segment Devel. Plan	546102	X			0006	Reserved		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					CI: Basic IWS (BOC)	346200	X		0006		
		X					Prelim. Design	446210	X		0006		
		X					Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546210	X		0006	No Labor	
		X					Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646200	X		0006		
		X					Prepare CI Specifications and Conduct Internal Design Reviews	546211	X		0006	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. <u> </u>			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					Accomplish Prelim. Design of Commercial Product Modifications	546212	X			0006	Reserved			
		X					Critical Design	446220	X			0006				
		X					Accomplish Detailed Design of CI	546220	X			0006	No Labor			
		X					Accomplish Detailed Design of CI	646203	X			0006				
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546221	X			0006	No Labor			
		X					Accomplish Critical Design of Commercial Product Modifications	546223	X			0006	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Development	446230	X		0006		
		X					Accomplish Fab. of All Manufactured HW	546230	X		0006	No Labor	
			X				Accomplish Fab. of All Manufactured HW	646206	X		0006		
				X			Accomplish Modif. of Commercial Products	546231	X		0006	Reserved	
					X		Prepare As-built Component Specs.	546232	X		0006	Reserved	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Test	446240		X	0006		
		X					Prepare Hardware Test & TEMPEST Test Procedures	546240		X	0006	No Labor	
		X					Prepare Hardware Test & TEMPEST Test Procedures	646212		X	0006		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	TEST	MANUF	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
139		X					546241		X		0006	Reserved	
		X					546242		X		0006	Reserved	
		X					446250	X			0006		
		X					546250	X			0006		
		X					646253	X			0006		
		X					546251	X			0006	Reserved	
		X					546252	X			0006	Reserved	

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					CI: Enhanced IWS (BOC)	346201	X			0006				
		X					Prelim. Design	446211	X			0006				
		X					Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546213	X			0006				
		X					Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646217	X			0006				
		X					Prepare CI Specifications and Conduct Internal Design Reviews	546214	X			0006				
		X					Prepare CI Specifications and Conduct Internal Design Reviews	646218	X			0006				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
141		X					Accomplish Prelim. Design of Commercial Product Modifications	546215	X			0006	Reserved
		X					Critical Design	446221	X			0006	
		X					Accomplish Detailed Design of CI	546224	X			0006	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546225	X			0006	
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	646221	X			0006	
		X					Accomplish Critical Design of Commercial Product Modifications	546226	X			0006	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Development	446231	X			0006	Reserved
		X					Accomplish Fab. of All Manufactured HW	546232		X		0006	Reserved
		X					Accomplish Modif. of Commercial Products	546233		X		0006	Reserved
		X					Prepare As-built Component Specs.	546234	X			0006	Reserved

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					Test	446241		X	0006					
		X					Prepare Hardware Test & TEMPEST Test Procedures	546243		X	0006	Reserved				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
I		X					546244		X		0006	Reserved	
		X					546245		X		0006		
		X					646231		X		0006		
		X					446251	X			0006		
		X					546253	X			0006		
		X					646232	X			0006		
		X					546254	X			0006		
		X					646233	X			0006		
		X					546255	X			0006		
		X					646234	X			0006		

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	1	2	3	4	5	6							
	X						CI: Full Capability (BOC)	346202	X			0006	
	X						Prelim. Design	446212	X			0006	Reserved
	X						Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546216	X			0006	Reserved
	X						Prepare CI Specifications and Conduct Internal Design Reviews	546217	X			0006	Reserved

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Accomplish Prelim. Design of Commercial Product Modifications	546218	X			0006	Reserved
		X					Critical Design	446222	X			0006	Reserved
		X					Accomplish Detailed Design of CI	546227	X			0006	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546228	X			0006	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	546229	X			0006	Reserved

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	1	2	3	4	5	6							
	X						Development	446232	X			0006	Reserved
		X					Accomplish Fab. of All Manufactured HW	546236		X		0006	Reserved
		X					Accomplish Mod. of Commercial Products	546237		X		0006	Reserved
		X					Prepare As-built Component Specs.	546238	X			0006	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
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	1	2	3	4	5	6							
	X						Test	446242		X	0006	Reserved	
		X					Prepare Hardware Test & TEMPEST Test Procedures	546246		X	0006	Reserved	

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	1	2	3	4	5	6							
149		X					546247		X		0006	Reserved	
		X					546248		X		0006	Reserved	
		X					446252	X			0006		
		X					546256	X			0006		
		X					546257	X			0006	Reserved	
		X					546258	X			0006	Reserved	
		X					646250	X			0006		

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	1	2	3	4	5	6										
	X						Hardware Development (IOC)	247000	X			0007				
		X					Hardware Development Management	347100	X			0007				
		X					Hardware Development Management	447100	X			0007				
			X				Manage All Hardware Development	547100	X			0007				
			X				Manage All Hardware Development	647100	X			0007				
			X				Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	547101	X			0007	Reserved			
			X				Provide Inputs to Segment Devel. Plan	547102	X			0007	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. <u> </u>			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						CI: Basic IWS (IOC)	347200	X			0007	
		X					Critical Design	447220	X			0007	Reserved
		X					Accomplish Detailed Design of CI	547220	X			0007	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547221	X			0007	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	547222	X			0007	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Development	447230	X			0007	Reserved
		X					Accomplish Fab. of All Manufactured HW	547230		X		0007	Reserved
		X					Accomplish Modif. of Commercial Products	547231		X		0007	Reserved
		X					Prepare As-built Component Specs.	547232	X			0007	Reserved

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
		X					Test	447240		X	0007	Reserved			
			X				Prepare Hardware Test & TEMPEST Test Procedures	547240		X	0007	Reserved			

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DEV/DEV MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6									
154		X					Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	547241		X	0007	Reserved			
		X					Support Test and Verification	547242		X	0007	Reserved			
		X					Documentation	447250	X		0007				
		X					Prepare Equipment Operation and Maintenance Manuals	547250	X		0007				
		X					Prepare Inputs to Segment/System Operations and User Manuals	547251	X		0007	Reserved			
		X					Prepare Inputs to Training Manuals	547252	X		0007	Reserved			
		X					Prepare Equipment Operations and Maintenance Manuals	647212	X		0007				

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WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						CI: Enhanced IWS - IOC	347201	X			0007	
		X					Critical Design	447221	X			0007	Reserved
		X					Accomplish Detailed Design of CI	547223	X			0007	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547224	X			0007	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	547225	X			0007	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
	X						Development	447231	X			0007				
		X					Accomplish Fab. of All Manufactured HW	547233		X		0007	Reserved			
		X					Accomplish Modif. of Commercial Products	547234		X		0007	Reserved			
		X					Prepare As-built Component Specs.	547235	X			0007	No Labor			
			X				Prepare Mfg. Drawing Packages	647222	X			0007				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					Test	447241		X		0007				
		X					Prepare Hardware Test & TEMPEST Test Procedures	547243		X		0007	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPI C D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
158		X					Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547244		X		0007	Reserved
		X					Support Test and Verification	547245		X		0007	
		X					Support Test and Verification	647226		X		0007	
		X					Documentation	447251	X			0007	
		X					Prepare Equipment Operation and Maintenance Manuals	547253	X			0007	
		X					Prepare Inputs to Segment/System Operations and User Manuals	547254	X			0007	Reserved
		X					Prepare Inputs to Training Manuals	547255	X			0007	Reserved
		X					Prepare Equipment Operations and Maintenance Manuals	647227	X			0007	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
159		X					CI: Full Capability IWS - IOC	347202	X			0007	
		X					Critical Design	447222	X			0007	No Labor
		X					Accomplish Detailed Design of CI	547226	X			0007	
		X					Accomplish Detailed Design of CI	647230	X			0007	
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547227	X			0007	No Labor
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	647231	X			0007	
		X					Accomplish Critical Design of Commercial Product Modifications	547228	X			0007	No Labor
		X					Accomplish Critical Design of Commercial Product Modifications	647232	X			0007	

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	1	2	3	4	5	6							
	X						Development	447232	X			0007	Reserved
		X					Accomplish Fab. of All Manufactured HW	547236	X			0007	Reserved
		X					Accomplish Modif. of Commercial Products	547237	X			0007	Reserved
		X					Prepare As-built Component Specs.	547238	X			0007	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____			DATE: 2-24-82	
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	1	2	3	4	5	6							
		X					Test	447242		X	0007	Reserved	
			X				Prepare Hardware Test & TEMPEST Test Procedures	547246		X	0007	Reserved	

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	1	2	3	4	5	6						
162		X					Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547247		X	0007	Reserved
		X					Support Test and Verification	547248		X	0007	Reserved
		X					Documentation	447252	X		0007	
		X					Prepare Equipment Operation and Maintenance Manuals	547256	X		0007	
		X					Prepare Equipment Operation and Maintenance Manuals	647242	X		0007	
		X					Prepare Inputs to Segment/System Operations and User Manuals	547257	X		0007	Reserved
		X					Prepare Inputs to Training Manuals	547258	X		0007	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DESIGN	TEST	MANUF	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						Hardware Development (FOC)	248000	X		0008		
		X					Hardware Development Management	348100	X		0008		
			X				Hardware Development Management	448100	X		0008		
				X			Manage All Hardware Development	548100	X		0008		
					X		Manage All Hardware Development	648100	X		0008		
						X	Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	648101	X		0008	Reserved	
							Provide Inputs to Segment Devel. Plan	548102	X		0008	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
	X						CI: Basic IWS - FOC	348200	X			0008	
		X					Critical Design	448220	X			0008	Reserved
		X					Accomplish Detailed Design of CI	548220	X			0008	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548221	X			0008	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	548222	X			0008	Reserved

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____			DATE: 2-24-82	
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	1	2	3	4	5	6							
	X						Development	448230	X			0008	Reserved
		X					Accomplish Fab. of All Manufactured HW	548230		X		0008	Reserved
		X					Accomplish Modif. of Commercial Products	548231		X		0008	Reserved
		X					Prepare As-built Component Specs.	548232		X		0008	Reserved

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	1	2	3	4	5	6						
		X					Test	448240	X	0008	Reserved	
		X					Prepare Hardware Test & TEMPEST Test Procedures	548240	X	0008	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
		X					Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548241		X		0008	Reserved
		X					Support Test and Verification	548242		X		0008	Reserved
		X					Documentation	448250	X			0008	
		X					Prepare Equipment Operation and Maintenance Manuals	548250	X			0008	
		X					Prepare Inputs to Segment/System Operations and User Manuals	548251	X			0008	Reserved
		X					Prepare Inputs to Training Manuals	548252	X			0008	Reserved
		X					Prepare Equipment Operations and Maintenance Manuals	648212	X			0008	

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	1	2	3	4	5	6							
	X						CI: Enhanced IWS - FOC	348201	X			0008	
		X					Critical Design	448221	X			0008	Reserved
		X					Accomplish Detailed Design of CI	548223	X			0008	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548224	X			0008	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	548225	X			0008	Reserved

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	1	2	3	4	5	6							
		X					Development	448231	X			0008	Reserved
		X					Accomplish Fab. of All Manufactured HW	548233		X		0008	Reserved
		X					Accomplish Modif. of Commercial Products	548234		X		0008	Reserved
		X					Prepare As-built Component Specs.	548235		X		0008	Reserved

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	1	2	3	4	5	6							
	X						Test	448241	X		0008	Reserved	
		X					Prepare Hardware Test & TEMPEST Test Procedures	548243	X		0008	Reserved	

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	1	2	3	4	5	6						
171		X					Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548244		X	0008	Reserved
		X					Support Test and Verification	548245		X	0008	Reserved
		X					Documentation	448251	X		0008	
		X					Prepare Equipment Operation and Maintenance Manuals	548253	X		0008	
		X					Prepare Inputs to Segment/System Operations and User Manuals	548254	X		0008	Reserved
		X					Prepare Inputs to Training Manuals	548255	X		0008	Reserved
		X					Prepare Equipment Operations and Maintenance Manuals	648227	X		0008	

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	1	2	3	4	5	6							
	X						CI: Full Capability IWS - FOC	348202	X			0008	
		X					Critical Design	448222	X			0008	
		X					Accomplish Detailed Design of CI	548226	X			0008	Reserved
		X					Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548227	X			0008	Reserved
		X					Accomplish Critical Design of Commercial Product Modifications	548228	X			0008	
		X					Accomplish Critical Design of Commerical Product Modifications	648232	X			0008	

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	1	2	3	4	5	6							
	X						Development	448232	X			0008	Reserved
		X					Accomplish Fab. of All Manufactured HW	548236		X		0008	Reserved
		X					Accomplish Modif. of Commercial Products	548237		X		0008	Reserved
		X					Prepare As-built Component Specs.	548238	X			0008	Reserved

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	1	2	3	4	5	6									
	X						448242		X		0008	Reserved			
		X					548246		X		0008	Reserved			

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	1	2	3	4	5	6							
		X					Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548247		X		0008	Reserved
		X					Support Test and Verification	548248		X		0008	Reserved
		X					Documentation	448252	X			0008	
		X					Prepare Equipment Operation and Maintenance Manuals	548256	X			0008	
		X					Prepare Inputs to Segment/System Operations and User Manuals	548257	X			0008	Reserved
		X					Prepare Inputs to Training Manuals	548258	X			0008	Reserved
		X					Prepare Equipment Operations and Maintenance Manuals	648242	X			0008	

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	1	2	3	4	5	6							
	X						Automated Data Processing Equipment (ADPE) Hardware and Software	249000	X			0009	
		X					Procurement	349100	X			0009	
		X					Management	449100	X			0009	
		X					Management	549100	X			0009	
		X					Manage All ADPE Procurement Activities - BOC	649100	X			0009	
		X					Manage All ADPE Procurement Activities - IOC	649101	X			0009	
		X					Provide & Enforce All Procurement Practices, Standards & Conventions - BOC	649103	X			0009	
		X					Provide & Enforce All Procurement Practices, Standards & Conventions - IOC	649104	X			0009	

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	1	2	3	4	5	6							
177	X						Procure ADPE (Include Labor Plus the Actual Equipment & Product Costs)	449101	X			0009	
		X					Procure Commercial CPCI's	549101	X			0009	
		X					Project Labor to Support Procurement - BOC	649106	X			0009	
		X					Project Labor to Support Procurement - IOC	649107	X			0009	
		X					Project Labor to Support Procurement - FOC	649108	X			0009	Reserved
		X					Procurement - BOC	649109	X			0009	
		X					Procurement - IOC	649110	X			0009	
		X					Procure Commercial CI's	549102	X			0009	
		X					Project Labor to Support Procurement - BOC	649112	X			0009	
		X					Project Labor to Support Procurement - IOC	649113	X			0009	

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	1	2	3	4	5	6							
178			X				Procure - BOC	649115	X			0009	
			X				Procure - IOC	649116	X			0009	Reserved
			X				Test	349200		X		0009	
			X				Accomplish Acceptance Testing of Commercial ADPE	449200		X		0009	Reserved
			X				Acceptance Test Commercial CPCI's - BOC	549200		X		0009	Reserved

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	1	2	3	4	5	6							
		X					Acceptance Test Commercial CI's	549201		X	0009	Reserved	

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	1	2	3	4	5	6										
180		X					GFE	349300	X			0009				
		X					Install & Checkout GFE	449300	X			0009				
		X					Install & Checkout GFE	549300	X			0009				
		X					Install & Checkout GFE - BOC	649300	X			0009				
		X					Provide GFE Maintenance	449301	X			0009				
		X					Provide GFE Maintenance	549301	X			0009				
		X					Provide GFE Maintenance - BOC	649301	X			0009				
		X					Provide GFE Maintenance - FOC	649303	X			0009				

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	1	2	3	4	5	6							
181	X						Test and Verification - BOC	241000		X		0010	
		X					Test & Verification Management	341010	X			0010	
		X					Test & Verification Management	441010	X			0010	
		X					Test & Verification Management	541010	X			0010	
		X					Provide Mgm't. of Segment Test Activities - BOC	641010	X			0010	
		X					Prepare Test Plans - BOC	641011		X		0010	
		X					Prepare Test Procedures - BOC	641012		X		0010	
		X					Prepare Test Plan for GFE Equipment - BOC	641013		X		0010	
		X					Test Support	341020		X		0010	
		X					Test Support	441020		X		0010	
		X					Test Support	541020		X		0010	
		X					Provide Necessary Software to Support Integrated Testing - BOC	641020		X		0010	

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	1	2	3	4	5	6							
			X				Provide Necessary Hardware to Support Integrated Testing - BOC	641021		X		0010	
			X				Provide Necessary Data to Support Integrated Testing - BOC	641022		X		0010	
		X					Integration Test	341030		X		0010	
		X					Integration Test	441030		X		0010	
		X					Integration Test	541030		X		0010	
		X					Accomplish Inter-CI Testing - BOC	641030		X		0010	
		X					Accomplish Inter-CPCI Testing - BOC	641031		X		0010	
		X					Accomplish Integrated CPCI/CI Testing - BOC	641032		X		0010	
		X					Provide Integration Test Reports - BOC	641033		X		0010	

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	1	2	3	4	5	6							
	X						Factory Preship Test	341040	X		0010		
		X					Factory Preship Test	441040	X		0010		
		X					Factory Preship Test	541040	X		0010		
			X				Perform Formal Preship Test - BOC	641040	X		0010		
			X				Provide Preship Test Report - BOC	641041	X		0010		

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	1	2	3	4	5	6							
	X						Test and Verification - IOC	241100		X		0011	
		X					Test & Verification Management	341110	X			0011	
		X					Test & Verification Management	441110	X			0011	
		X					Test & Verification Management	541110	X			0011	
		X					Provide Mgm't. of Segment Test Activities - IOC	641110	X			0011	
		X					Prepare Test Plans - IOC	641111		X		0011	
		X					Prepare Test Procedures - IOC	641112		X		0011	
		X					Prepare Test Plan for GFE Equipment - IOC	641113		X		0011	Reserved
	X						Test Support	341120		X		0011	
	X						Test Support	441120		X		0011	
	X						Test Support	541120		X		0011	
	X						Provide Necessary Software to Support Integrated Testing - IOC	641120		X		0011	

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	1	2	3	4	5	6							
185				X	Provide Necessary Hardware to Support Integrated Testing - IOC		641121		X		0011		
				X	Provide Necessary Data to Support Integrated Testing - IOC		641122		X		0011		
			X		Integration Test		341130		X		0011		
			X		Integration Test		441130		X		0011		
			X		Integration Test		541130		X		0011		
			X		Accomplish Inter-CI Testing - IOC		641130		X		0011		
			X		Accomplish Inter-CPCI Testing - IOC		641131		X		0011		
			X		Accomplish Integrated CPCI/CI Testing - IOC		641132		X		0011		
			X		Provide Integration Test Reports - IOC		641133		X		0011		

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	1	2	3	4	5	6										
	X						Factory Preship Test	341140		X		0011				
		X					Factory Preship Test	441140		X		0011				
			X				Factory Preship Test	541140		X		0011				
				X			Perform Formal Preship Test - IOC	641140		X		0011				
					X		Provide Preship Test Report - IOC	641141		X		0011				

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	1	2	3	4	5	6									
187	X						Test and Verification - FOC	241200		X		0012			
		X					Test & Verification Management	341210	X			0012			
		X					Test & Verification Management	441210	X			0012			
		X					Test & Verification Management	541210	X			0012			
		X					Provide Mgm't. of Segment Test Activities - FOC	641210	X			0012			
		X					Prepare Test Plans - FOC	641211		X		0012	Reserved		
		X					Prepare Test Procedures - FOC	641212		X		0012	Reserved		
	X						Test Support	341220		X		0012	Reserved		
	X						Test Support	441220		X		0012	Reserved		
	X						Test Support	541220		X		0012	Reserved		
	X						Provide Necessary Software to Support Integrated Testing - FOC	641220		X		0012	Reserved		

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	1	2	3	4	5	6							
			X	Provide Necessary Hardware to Support Integrated Testing - FOC			641221		X		0012	Reserved	
			X	Provide Necessary Hardware to Support Integrated Testing			641222		X		0012	Reserved	
		X		Integration Test - FOC			341230		X		0012	Reserved	
		X		Integration Test			441230		X		0012	Reserved	
		X		Integration Test			541230		X		0012	Reserved	
		X		Accomplish Inter-CI Testing			641230		X		0012	Reserved	
		X		Accomplish Inter-CPCI Testing			641231		X		0012	Reserved	
		X		Accomplish Integrated CPCI/CI Testing			641232		X		0012	Reserved	
		X		Provide Integration Test Reports			641233		X		0012	Reserved	

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	1	2	3	4	5	6							
	X						Factory Preship Test - FOC	341240		X	0012	Reserved	
		X					Factory Preship Test	441240		X	0012	Reserved	
		X					Factory Preship Test	541240		X	0012	Reserved	
			X				Perform Formal Preship Test	641240		X	0012	Reserved	

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	1	2	3	4	5	6							
101	X						Installation, Checkout and Test - BOC	241300		X		0013	
		X					Install., Checkout & Test Management	341310	X			0013	
		X					Install., Checkout & Test Management	441310	X			0013	
			X				Install., Checkout & Test Management	541310	X			0013	
			X				Provide Management of Installation and Checkout Activities - BOC	641310	X			0013	
				X			Facility Planning - BOC	341320	X			0013	
				X			Facility Planning	441320	X			0013	
				X			Facility Planning	541320	X			0013	
					X		Provide Facility Interface Drawings/Requirements (IDRs) - BOC	641320				0013	
					X		Provide Facility Planning - BOC	641321				0013	

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	1	2	3	4	5	6							
	X						Installation & Checkout - BOC	341330	X			0013	
		X					Installation & Checkout	441330	X			0013	
			X				Installation & Checkout	541330	X			0013	
				X			Prepare Segment Shipping Plan	641330	X			0013	
				X			Prepare Segment Installation Plan	641331	X			0013	
				X			Provide for Shipment, Installation and Checkout of All Segment Items	641332	X			0013	
					X		Accomplish Segment Integration and Transition to Operational Status	641333	X			0013	
					X		Site Segment Test - BOC	341340		X		0013	
					X		Site Segment Test	441340		X		0013	
						X	Site Segment Test	541340		X		0013	
						X	Perform Formal Site Segment Test	641340		X		0013	

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	1	2	3	4	5	6							
		X					Provide Site Segment Test Report	641341		X		0013	
		X					Site Inter-Segment Demos	341350	X			0013	
		X					Site Inter-Segment Demos	441350	X			0013	
		X					Site Inter-Segment Demos	541350	X			0013	
		X					Contribute to System Test Plan and Test Report to be Prepared by the SI - BOC	641350		X		0013	
		X					Participate in On-Site System Testing - BOC	641351			X	0013	
		X					Inter-Program Demos	341360	X			0013	
		X					Inter-Program Demos	441360	X			0013	
		X					Inter-Program Demos	541360	X			0013	
		X					Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI - BOC	641360	X			0013	

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	1	2	3	4	5	6							
				X			Support Program Demos - BOC	641361	X		0013		

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	1	2	3	4	5	6								
194	X						Installation, Checkout and Test - IOC	241400		X	0014			
		X					Install., Checkout & Test Management	341410		X	0014			
		X					Install., Checkout & Test Management	441410		X	0014			
			X				Install., Checkout & Test Management	541410		X	0014			
			X				Provide Management of Installation and Checkout Activities	641410	X		0014			
				X			Provide Test Plan	641411		X	0014			
					X		Facility Planning - IOC	341420	X		0014			
					X		Facility Planning	441420	X		0014			
					X		Facility Planning	541420	X		0014			
					X		Provide Facility Interface Drawings/Requirements (IDRs)	641420	X		0014			
					X		Provide Facility Planning	641421	X		0014			

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	1	2	3	4	5	6							
195		X					Installation & Checkout - IOC	341430	X			0014	
		X					Installation & Checkout	441430	X			0014	
		X					Installation & Checkout	541430	X			0014	
		X					Prepare Segment Shipping Plan	641430	X			0014	
		X					Prepare Segment Installation Plan	641431	X			0014	
		X					Provide for Shipment, Installation and Checkout of All Segment Items	641432	X			0014	
		X					Accomplish Segment Integration and Transition to Operational Status	641433	X			0014	
		X					Site Segment Test - IOC	341440		X		0014	
		X					Site Segment Test	441440		X		0014	
		X					Site Segment Test	541440		X		0014	
		X					Perform Formal Site Segment Test	641440		X		0014	

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	1	2	3	4	5	6							
		X					Provide Site Segment Test Report	641441		X		0014	
		X					Site Inter-Segment Demos - IOC	341450	X			0014	
		X					Site Inter-Segment Demos	441450	X			0014	
		X					Site Inter-Segment Demos	541450	X			0014	
		X					Contribute to System Test Plan and Test Report to be Prepared by the SI	641450		X		0014	
		X					Participate in On-Site System Testing	641451		X		0014	
		X					Inter-Program Demos - IOC	341460	X			0014	
		X					Inter-Program Demos	441460	X			0014	
		X					Inter-Program Demos	541460	X			0014	
		X					Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641460	X			0014	

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	1	2	3	4	5	6							
197							X Support Program Demos	641461	X		0014		

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	1	2	3	4	5	6							
X							Installation, Checkout and Test - FOC	241500		X		0015	
	X						Install., Checkout & Test Management	341510	X			0015	
		X					Install., Checkout & Test Management	441510	X			0015	
		X					Install., Checkout & Test Management	541510	X			0015	
			X				Provide Management of Installation and Checkout Activities - FOC	641510		X		0015	
				X			Facility Planning - FOC	341520	X			0015	
					X		Facility Planning	441520	X			0015	
						X	Facility Planning	541520	X			0015	Reserved
						X	Provide Facility Interface Drawings/Requirements (IDRs)	641520	X			0015	Reserved
						X	Provide Facility Planning	641521	X			0015	Reserved

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	1	2	3	4	5	6							
199	X						341530	X			0015		
		X					441530	X			0015		
		X					541530	X			0015		
			X				641530	X			0015		
			X				641531	X			0015		
			X				641532	X			0015		
			X				641533	X			0015		
			X				341540		X		0015		
			X				441540		X		0015		
			X				541540		X		0015		
			X				641540		X		0015		

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	1	2	3	4	5	6							
200			X				Provide Site Segment Test Report	641541		X		0015	
		X					Site Inter-Segment Demos - FOC	341550	X			0015	
		X		X			Site Inter-Segment Demos	441550	X			0015	
			X				Site Inter-Segment Demos	541550	X			0015	
			X				Contribute to System Test Plan and Test Report to be Prepared by the SI	641550		X		0015	
			X				Participate in On-Site System Testing	641551		X		0015	
		X					Inter-Program Demos - FOC	341560	X			0015	
		X					Inter-Program Demos	441560	X			0015	
			X				Inter-Program Demos	541560	X			0015	
			X				Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641560	X			0015	

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	1	2	3	4	5	6							
201						X	Support Program Demos	641561	X		0015		

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	1	2	3	4	5	6								
202	X						Development and Test Facility	241600		X		0016		
		X					Devel. & Test Facility Management	341610	X			0016		
		X					Devel. & Test Facility Management	441610	X			0016		
			X				Devel. & Test Facility Management	541610	X			0016		
			X				Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - BOC	641610	X			0016		
			X				Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - IOC	641611	X			0016		
			X				Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - FOC	641612	X			0016	Reserved	
				X			Devel. & Test Facility Services	341620		X		0016		
				X			Devel. & Test Facility Services	441620		X		0016		
				X			Devel. & Test Facility Services	541620		X		0016		
				X			Devel. Necessary Software Tools, Library Support, etc. for Devel. & Test Facility - BOC	641620		X		0016		
				X			Devel. Necessary Software Tools, Library Sprrt., etc. for Devel. & Test Facil-IOC	641621		X		0016		

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	1	2	3	4	5	6						
		X	Develop Necessary Test Tools, etc. for Devel. & Test Facility - BOC				641622	X		0016		
		X	Develop Necessary Test Tools, etc. for Devel. & Test Facility - IOC				641623	X		0016		

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	1	2	3	4	5	6							
204		X					Equipment	341630	X			0016	
		X					Equipment	441630	X			0016	
		X					Equipment	541630	X			0016	
		X					Provide ADPE Capable of Supporting the Devel. & Test Facility - BOC	641630	X			0016	
		X					Provide ADPE Capable of Supporting the Devel. & Test Facility - IOC	641631	X			0016	Reserved
		X					Operations & Maintenance	341640	X			0016	
		X					Operations & Maintenance	441640	X			0016	
		X					Operations & Maintenance	541640	X			0016	

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	1	2	3	4	5	6							
		X					641640		X		0016		
		X					641641		X		0016		
		X					641643		X		0016		
		X					641644		X		0016		

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	1	2	3	4	5	6							
206		X					Subcontractor Devel. & Test Facilities	341650		X		0016	
		X					Subcontractor Devel. & Test Facilities	441650		X		0016	
			X				Provide Management, Planning and Control of Facilities	541650	X			0016	
			X				Provide Management, Planning and Control of Facilities - BOC	641650	X			0016	
			X				Provide Management, Planning and Control of Facilities - IOC	641651	X			0016	Reserved
			X				Provide Management, Planning and Control of Facilities - FOC	641652	X			0016	Reserved
			X				Services	541651	X			0016	Reserved
			X				Services - BOC	641653	X			0016	Reserved
			X				Services - IOC	641654	X			0016	Reserved

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	1	2	3	4	5	6							
		X	Services - FOC				641655	X			0006	Reserved	
		X	Equipment				541652	X			0006	Reserved	
		X	Equipment - BOC				641656	X			0006	Reserved	
		X	Equipment - IOC				641657	X			0006	Reserved	
		X	Equipment - FOC				641658	X			0006	Reserved	
		X	Operations & Maintenance				541653	X			0006	Reserved	
		X	Operate Subcontr. Devel. & Test Facil. - BOC				641659		X		0006	Reserved	
		X	Operate Subcontr. Devel. & Test Facil. - IOC				64165A		X		0006	Reserved	
		X	Operate Subcontr. Devel. & Test Facil. - FOC				64165B		X		0006	Reserved	
		X	Maintain Subcontr. Devel. & Test - BOC				64165C		X		0006	Reserved	
		X	Maintain Subcontr. Devel. & Test - IOC				64165D		X		0006	Reserved	
		X	Maintain Subcontr. Devel. & Test - FOC				64165E		X		0006	Reserved	

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	1	2	3	4	5	6							
208	X						Training	241700	X		0017		
		X					Training Management	341710	X		0017		
			X				Training Management	441710	X		0017		
				X			Training Management	541710	X		0017		
					X		Manage All Training Activities - BOC	641710	X		0017		
						X	Manage All Training Activities - IOC	641711	X		0017		
						X	Manage All Training Activities - FOC	641712	X		0017		
						X	Provide Segment Training Plan - BOC	641713	X		0017		
						X	Provide Segment Training Plan - IOC	641714	X		0017	Reserved	

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	1	2	3	4	5	6									
209	X						User Training	341720	X		0017				
	X						User Training	441720	X		0017				
	X						User Training	541720	X		0017				
	X						Accept Other Segment Inputs and Prepare User Training Materials - BOC	641720	X		0017				
	X						Accept Other Segment Inputs and Prepare User Training Materials - IOC	641721	X		0017				
	X						Accept Other Segment Inputs and Prepare User Training Materials - FOC	641722	X		0017				
	X						Train System Users and Gov't Instructors - BOC	641723	X		0017				
	X						Train System Users and Gov't Instructors - IOC	641724	X		0017				
	X						Train System Users and Gov't Instructors - FOC	641725	X		0017				

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	1	2	3	4	5	6							
210	X						Operator Training	341730	X			0017	
		X					Operator Training	441730	X			0017	
			X				Operator Training	541730	X			0017	
				X			Prepare and Deliver Operator Training Materials - BOC	641730	X			0017	
					X		Prepare and Deliver Operator Training Materials - IOC	641731	X			0017	
						X	Prepare and Deliver Operator Training Materials - FOC	641732	X			0017	
							Train Segment and System Operators and Management Personnel - BOC	641733	X			0017	
							Train Segment and System Operators and Management Personnel - IOC	641734	X			0017	
							Train Segment and System Operators and Management Personnel - FOC	641735	X			0017	

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	1	2	3	4	5	6						
211	X						Maintenance Training	341740	X		0017	
		X					Maintenance Training	441740	X		0017	
		X					Maintenance Training	541740	X		0017	
		X					Prepare and Deliver Maintenance Training Materials - BOC	641740	X		0017	
		X					Prepare and Deliver Maintenance Training Materials - IOC	641741	X		0017	
		X					Prepare and Deliver Maintenance Training Materials - FOC	641742	X		0017	
		X					Train All Segment Maintenance Personnel - BOC	641743	X		0017	
		X					Train All Segment Maintenance Personnel - IOC	641744	X		0017	
		X					Train All Segment Maintenance Personnel - FOC	641745	X		0017	

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	1	2	3	4	5	6										
212	X						Operations & Maintenance (O&M)	241800	X			0018				
		X					O & M Management	341810	X			0018				
			X				O & M Management	441810	X			0018				
				X			Provide O & M Project Management	541810	X			0018				
					X		Provide O & M Project Management - BOC	641810	X			0018				
						X	Provide O & M Project Management - IOC	641811	X			0018				
						X	Provide O & M Project Management - FOC	641812	X			0018				
						X	Provide O & M Project Control	541811	X			0018				
						X	Provide O & M Project Control - BOC	641813	X			0018				
						X	Provide O & M Project Control - IOC	641814	X			0018				
						X	Provide O & M Project Control - FOC	641815	X			0018		Reserved		
						X	Spares	341820	X			0018				
						X	Spares	441820	X			0018				
						X	Spares	541820	X			0018				
						X	Provide Spares Planning - BOC	641820	X			0018				
						X	Provide Spares Planning - IOC	641821	X			0018				
						X	Provide Spares Planning - FOC	641822	X			0018				

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	1	2	3	4	5	6						
213		X					Software Maintenance	341830	X		0018	
		X					Software Maintenance	441830	X		0018	
			X				System Engineering	541830	X		0018	
			X				System Engineering - BOC	641830	X		0018	
			X				Software Management	541831	X		0018	
			X				Software Management - IOC	641834	X		0018	

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	1	2	3	4	5	6										
214				X	Problem Analysis, Error Correction and Update Documentation		541832	X			0018					
				X	Problem Analysis, Error Correction and Update Documentation - BOC		641836	X			0018					
				X	Problem Analysis, Error Correction and Update Documentation - IOC		641837	X			0018					
				X	Problem Analysis, Error Correction and Update Documentation - FOC		641838	X			0018					
				X	Test		541833		X		0018					
				X	Test Software Changes - BOC		641839		X		0018					
				X	Test Software Changes - IOC		64183A		X		0018					
				X	Test Software Changes - FOC		64183B		X		0018					
				X	Maintain Commercial Software Products		541834	X			0018					
				X	Maintain Commercial Software Products - BOC		64183C	X			0018					
				X	Maintain Commercial Software Products - IOC		64183D	X			0018					

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	1	2	3	4	5	6							
215		X	Maintain Commercial Software Products - FOC				64183E	X			0018		
		X	Hardware Maintenance				341840	X			0018		
		X	Hardware Maintenance				441840	X			0018		
		X	Problem Analysis, Error Correction and Update Documentation - BOC				541840	X			0018		
		X	Problem Analysis, Error Correction and Update Documentation - IOC				641840	X			0018		
		X	Problem Analysis, Error Correction and Update Documentation - FOC				641841	X			0018		
		X	Problem Analysis, Error Correction and Update Documentation				641842	X			0018		
		X	Maintain Commercial Hardware				541841	X			0018	No Labor	
		X	Maintain Commercial Hardware - BOC				641843	X			0018		
		X	Maintain Commercial Hardware - IOC				641844	X			0018		
		X	Maintain Commercial Hardware - FOC				641845	X			0018		

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	1	2	3	4	5	6								
	X						Travel and Living	341870	X		0018			
		X					Travel and Living	441870	X		0018			
		X					Travel and Living	541870	X		0018			
		X					Provide Travel and Living Expenses for O & M Personnel - BOC	641870	X		0018	No Labor		
		X					Provide Travel and Living Expenses for O & M Personnel - IOC	641871	X		0018			